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SKYLAB

A. Title of investigation: The Great Basin Investigation

B. Number of investigation: #357

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I. Overall Status:

1. Plans to acquire high altitude black and white low sun angle photography along track #20 were implemented on September 18, and October 17th with overflights by NASA Ames U-2 aircraft. The two flights were started at 10 and 20 degree sun angles respectively and both covered the entire Winnemucca 1:250:000 AMS Sheet. The flights required about one hour each to cover the area during which time the sun angle increased by about 10 degrees, which means that the 28 degree sun angle coverage as seen from the B/W, S-190B photography taken on August 12 was duplicated by the airborne systems. The aircraft employed two cameras, with two different focal lengths one 24" and the other 6". The 6" camera provided full coverage with 60% forelap and 20% sidelap at a scale of 1:110:000 while the 24" camera provided an eight mile swath down the middle of the four flight lines at a scale of 1:30:000. Both missions were flown without a cloud in the sky. The differences in scale and sun angle provide an excellent format for direct comparison with the Skylab data and are being utilized in structural and geomorphic studies.
2. All colored products from the S-190A and S-190B have been received and sent out for duplicating by an outside contractor, none of which have been returned to date.

J. Expected accomplishments for the next reporting period.

1. Work on lithologic and structural studies will be emphasized using color and low sun angle photography.